

$f'_2(1525)$ $I^G(J^{PC}) = 0^+(2^{++})$ **$f'_2(1525)$ MASS**VALUE (MeV) DOCUMENT ID**1525±5 OUR ESTIMATE** This is only an educated guess; the error given is larger than the error on the average of the published values.**PRODUCED BY PION BEAM**VALUE (MeV) EVTS DOCUMENT ID TECN COMMENT

• • • We do not use the following data for averages, fits, limits, etc. • • •

1521±13	TIKHOMIROV	03	SPEC	40.0 $\pi^- C \rightarrow K_S^0 K_S^0 K_L^0 X$
1547 ⁺¹⁰ ₋₂	1 LONGACRE	86	MPS	22 $\pi^- p \rightarrow K_S^0 K_S^0 n$
1496 ⁺⁹ ₋₈	2 CHABAUD	81	ASPK	6 $\pi^- p \rightarrow K^+ K^- n$
1497 ⁺⁸ ₋₉	CHABAUD	81	ASPK	18.4 $\pi^- p \rightarrow K^+ K^- n$
1492±29	GORLICH	80	ASPK	17 $\pi^- p$ polarized $\rightarrow K^+ K^- n$
1502±25	3 CORDEN	79	OMEG	12–15 $\pi^- p \rightarrow \pi^+ \pi^- n$
1480	CRENNELL	66	HBC	6.0 $\pi^- p \rightarrow K_S^0 K_S^0 n$

NODE=M013205

NODE=M013MX

→ UNCHECKED ←

NODE=M013M1

NODE=M013M1

OCCUR=2

PRODUCED BY K^\pm BEAMVALUE (MeV) EVTS DOCUMENT ID TECN COMMENT**1523.4± 1.3 OUR AVERAGE** Includes data from the datablock that follows this one.
Error includes scale factor of 1.1.

1526.8± 4.3	ASTON	88D	LASS	11 $K^- p \rightarrow K_S^0 K_S^0 \Lambda$
1504 ± 12	BOLONKIN	86	SPEC	40 $K^- p \rightarrow K_S^0 K_S^0 Y$
1529 ± 3	ARMSTRONG	83B	OMEG	18.5 $K^- p \rightarrow K^- K^+ \Lambda$
1521 ± 6	650	AGUILAR...	81B	HBC 4.2 $K^- p \rightarrow \Lambda K^+ K^-$
1521 ± 3	572	ALHARRAN	81	HBC 8.25 $K^- p \rightarrow \Lambda K \bar{K}$
1522 ± 6	123	BARREIRO	77	HBC 4.15 $K^- p \rightarrow \Lambda K_S^0 K_S^0$
1528 ± 7	166	EVANGELIS...	77	OMEG 10 $K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$
1527 ± 3	120	BRANDENB...	76C	ASPK 13 $K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$
1519 ± 7	100	AGUILAR...	72B	HBC 3.9, 4.6 $K^- p \rightarrow K \bar{K} (\Lambda, \Sigma)$

• • • We do not use the following data for averages, fits, limits, etc. • • •

1514 ± 8	61	BINON	07	GAMS 32.5 $K^- p \rightarrow \eta\eta(\Lambda/\Sigma^0)$
1513 ± 10	4	BARKOV	99	SPEC 40 $K^- p \rightarrow K_S^0 K_S^0 y$

NODE=M013M2

NODE=M013M2

PRODUCED IN $e^+ e^-$ ANNIHILATIONVALUE (MeV) EVTS DOCUMENT ID TECN COMMENT

The data in this block is included in the average printed for a previous datablock.

1520.7± 2.0 OUR AVERAGE

1521 ± 5	ABLIKIM	05	BES2	$J/\psi \rightarrow \phi K^+ K^-$
1518 ± 1 ± 3	ABE	04	BELL	10.6 $e^+ e^- \rightarrow e^+ e^- K^+ K^-$
1519 ± 2 ⁺¹⁵ ₋₅	BAI	03G	BES	$J/\psi \rightarrow \gamma K \bar{K}$
1523 ± 6	331	5 ACCIARRI	01H L3	91, 183–209 $e^+ e^- \rightarrow e^+ e^- K_S^0 K_S^0$
1535 ± 5 ± 4	ABREU	96C	DLPH	$Z^0 \rightarrow K^+ K^- + X$
1516 ± 5 ⁺⁹ ₋₁₅	BAI	96C	BES	$J/\psi \rightarrow \gamma K^+ K^-$
1531.6±10.0	AUGUSTIN	88	DM2	$J/\psi \rightarrow \gamma K^+ K^-$
1515 ± 5	6 FALVARD	88	DM2	$J/\psi \rightarrow \phi K^+ K^-$
1525 ± 10 ± 10	BALTRUSAIT..87	MRK3	$J/\psi \rightarrow \gamma K^+ K^-$	

• • • We do not use the following data for averages, fits, limits, etc. • • •

1523 ± 5	870	7 SCHEGELSKY	06A RVUE	$\gamma\gamma \rightarrow K_S^0 K_S^0$
1496 ± 2		8 FALVARD	88 DM2	$J/\psi \rightarrow \phi K^+ K^-$

NODE=M013M3

NODE=M013M3

OCCUR=2

PRODUCED IN $\bar{p}p$ ANNIHILATIONVALUE (MeV) DOCUMENT ID TECN COMMENT

• • • We do not use the following data for averages, fits, limits, etc. • • •

1530±12	9 ANISOVICH	09	RVUE	0.0 $\bar{p}p, \pi N$
1513± 4	AMSLER	06	CBAR	0.9 $\bar{p}p \rightarrow K^+ K^- \pi^0$
1508± 9	10 AMSLER	02	CBAR	0.9 $\bar{p}p \rightarrow \pi^0 \eta\eta, \pi^0 \pi^0 \pi^0$

NODE=M013M9

NODE=M013M9

CENTRAL PRODUCTION

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
1515±15	BARBERIS	99	OMEG 450 $p p \rightarrow p_s p_f K^+ K^-$

PRODUCED IN $e p$ COLLISIONS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
1512±3^{+1.4}_{-0.5}	11	CHEKANOV	08	ZEUS $e p \rightarrow K_S^0 K_S^0 X$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1537 ⁺⁹ ₋₈	84	12 CHEKANOV	04	ZEUS $e p \rightarrow K_S^0 K_S^0 X$

1 From a partial-wave analysis of data using a K-matrix formalism with 5 poles.

2 CHABAUD 81 is a reanalysis of PAWLICKI 77 data.

3 From an amplitude analysis where the $f'_2(1525)$ width and elasticity are in complete disagreement with the values obtained from $K\bar{K}$ channel, making the solution dubious.

4 Systematic errors not estimated.

5 Supersedes ACCIARRI 95j.

6 From an analysis ignoring interference with $f_0(1710)$.

7 From analysis of L3 data at 91 and 183–209 GeV.

8 From an analysis including interference with $f_0(1710)$.

9 4-poles, 5-channel K matrix fit.

10 T-matrix pole.

11 In the SU(3) based model with a specific interference pattern of the $f_2(1270)$, $a_2^0(1320)$, and $f'_2(1525)$ mesons incoherently added to the $f_0(1710)$ and non-resonant background.

12 Systematic errors not estimated.

NODE=M013M4

NODE=M013M4

NODE=M013M10

NODE=M013M10

NODE=M013M;LINKAGE=L

NODE=M013M;LINKAGE=D

NODE=M013M;LINKAGE=N

NODE=M013M2;LINKAGE=SK

NODE=M013M;LINKAGE=HA

NODE=M013M;LINKAGE=F1

NODE=M013M3;LINKAGE=SC

NODE=M013M;LINKAGE=F2

NODE=M013M9;LINKAGE=AN

NODE=M013M;LINKAGE=TT

NODE=M013M10;LINKAGE=HE

NODE=M013M10;LINKAGE=CH

NODE=M013210

NODE=M013WX

NODE=M013W1

NODE=M013W1

OCCUR=2

NODE=M013W2

NODE=M013W2

 $f'_2(1525)$ WIDTH

VALUE (MeV)	DOCUMENT ID	COMMENT
73⁺⁶₋₅ OUR FIT		
76±10	PDG	90 For fitting

PRODUCED BY PION BEAM

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •			
102±42	TIKHOMIROV	03	SPEC $40.0 \pi^- C \rightarrow K_S^0 K_S^0 K_L^0 X$
108 ⁺⁵ ₋₂	13 LONGACRE	86	MPS $22 \pi^- p \rightarrow K_S^0 K_S^0 n$
69 ⁺²² ₋₁₆	14 CHABAUD	81	ASPK $6 \pi^- p \rightarrow K^+ K^- n$
137 ⁺²³ ₋₂₁	CHABAUD	81	ASPK $18.4 \pi^- p \rightarrow K^+ K^- n$
150 ⁺⁸³ ₋₅₀	GORLICH	80	ASPK $17 \pi^- p$ polarized $\rightarrow K^+ K^- n$
165±42	15 CORDEN	79	OMEG 12–15 $\pi^- p \rightarrow \pi^+ \pi^- n$
92 ⁺³⁹ ₋₂₂	16 POLYCHRO...	79	STRC $7 \pi^- p \rightarrow n K_S^0 K_S^0$

PRODUCED BY K^\pm BEAM

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
80.2± 2.6 OUR AVERAGE				Includes data from the datablock that follows this one.
90 ± 12		ASTON	88D LASS	$11 K^- p \rightarrow K_S^0 K_S^0 \Lambda$
73 ± 18		BOLONKIN	86 SPEC	$40 K^- p \rightarrow K_S^0 K_S^0 Y$
83 ± 15		ARMSTRONG	83B OMEG	$18.5 K^- p \rightarrow K^- K^+ \Lambda$
85 ± 16	650	AGUILAR-...	81B HBC	$4.2 K^- p \rightarrow \Lambda K^+ K^-$
80 +14 -11	572	ALHARRAN	81 HBC	$8.25 K^- p \rightarrow \Lambda K\bar{K}$
72 ± 25	166	EVANGELIS...	77 OMEG	$10 K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$
69 ± 22	100	AGUILAR-...	72B HBC	$3.9, 4.6 K^- p \rightarrow K\bar{K} (\Lambda, \Sigma)$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
92 +25 -16	61	BINON	07 GAMS	$32.5 K^- p \rightarrow \eta \eta (\Lambda / \Sigma^0)$
75 ± 20		17 BARKOV	99 SPEC	$40 K^- p \rightarrow K_S^0 K_S^0 y$
62 +19 -14	123	BARREIRO	77 HBC	$4.15 K^- p \rightarrow \Lambda K_S^0 K_S^0$
61 ± 8	120	BRANDENB...	76C ASPK	$13 K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$

PRODUCED IN $e^+ e^-$ ANNIHILATION

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
The data in this block is included in the average printed for a previous datablock.				
79.9 ± 3.3 OUR AVERAGE				Error includes scale factor of 1.1.
77 ± 15		ABLIKIM 05	BES2	$J/\psi \rightarrow \phi K^+ K^-$
82 ± 2 ± 3		ABE 04	BELL	$10.6 e^+ e^- \rightarrow e^+ e^- K^+ K^-$
75 ± 4 ± 5		BAI 03G	BES	$J/\psi \rightarrow \gamma K\bar{K}$
100 ± 15	331	18 ACCIARRI 01H	L3	$91, 183-209 e^+ e^- \rightarrow e^+ e^- K_S^0 K_S^0$
60 ± 20 ± 19		ABREU 96C	DLPH	$Z^0 \rightarrow K^+ K^- + X$
60 ± 23 ± 13		BAI 96C	BES	$J/\psi \rightarrow \gamma K^+ K^-$
103 ± 30		AUGUSTIN 88	DM2	$J/\psi \rightarrow \gamma K^+ K^-$
62 ± 10		19 FALVARD 88	DM2	$J/\psi \rightarrow \phi K^+ K^-$
85 ± 35		BALTRUSAIT..87	MRK3	$J/\psi \rightarrow \gamma K^+ K^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
104 ± 10	870	20 SCHEGELSKY 06A	RVUE	$\gamma\gamma \rightarrow K_S^0 K_S^0$
100 ± 3		21 FALVARD 88	DM2	$J/\psi \rightarrow \phi K^+ K^-$

NODE=M013W3
NODE=M013W3**PRODUCED IN $\bar{p}p$ ANNIHILATION**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
79 ± 8	22 AMSLER 02	CBAR	$0.9 \bar{p}p \rightarrow \pi^0 \eta\eta, \pi^0 \pi^0 \pi^0$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
128 ± 20	23 ANISOVICH 09	RVUE	$0.0 \bar{p}p, \pi N$
76 ± 6	AMSLER 06	CBAR	$0.9 \bar{p}p \rightarrow K^+ K^- \pi^0$

NODE=M013W9
NODE=M013W9**CENTRAL PRODUCTION**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
70±25	BARBERIS 99	OMEG	$450 pp \rightarrow p_s p_f K^+ K^-$

NODE=M013W4
NODE=M013W4**PRODUCED IN $e p$ COLLISIONS**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
83 ± 9 ± 4		24 CHEKANOV 08	ZEUS	$e p \rightarrow K_S^0 K_S^0 X$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
50 ± 34	84	25 CHEKANOV 04	ZEUS	$e p \rightarrow K_S^0 K_S^0 X$

NODE=M013W10
NODE=M013W10

- 13 From a partial-wave analysis of data using a K-matrix formalism with 5 poles.
 14 CHABAUD 81 is a reanalysis of PAWLICKI 77 data.
 15 From an amplitude analysis where the $f_2'(1525)$ width and elasticity are in complete disagreement with the values obtained from $K\bar{K}$ channel, making the solution dubious.
 16 From a fit to the D with $f_2(1270)-f_2'(1525)$ interference. Mass fixed at 1516 MeV.
 17 Systematic errors not estimated.
 18 Supersedes ACCIARRI 95J.
 19 From an analysis ignoring interference with $f_0(1710)$.
 20 From analysis of L3 data at 91 and 183–209 GeV.
 21 From an analysis including interference with $f_0(1710)$.
 22 T-matrix pole.
 23 4-poles, 5-channel K matrix fit.
 24 In the SU(3) based model with a specific interference pattern of the $f_2(1270)$, $a_2^0(1320)$, and $f_2'(1525)$ mesons incoherently added to the $f_0(1710)$ and non-resonant background.
 25 Systematic errors not estimated.

NODE=M013W;LINKAGE=L
NODE=M013W;LINKAGE=D
NODE=M013W;LINKAGE=NNODE=M013W;LINKAGE=M
NODE=M013W2;LINKAGE=SK
NODE=M013W;LINKAGE=HA
NODE=M013W;LINKAGE=F1
NODE=M013W3;LINKAGE=SC
NODE=M013W;LINKAGE=F2
NODE=M013W;LINKAGE=TT
NODE=M013W9;LINKAGE=AN
NODE=M013W10;LINKAGE=HE

NODE=M013W10;LINKAGE=CH

NODE=M013215;NODE=M013

DESIG=2
DESIG=4
DESIG=1
DESIG=3
DESIG=6
DESIG=5
DESIG=7
DESIG=8 **$f_2'(1525)$ DECAY MODES**

Mode	Fraction (Γ_i/Γ)
Γ_1	$(88.7 \pm 2.2) \%$
Γ_2	$(10.4 \pm 2.2) \%$
Γ_3	$(8.2 \pm 1.5) \times 10^{-3}$
Γ_4	$K\bar{K}^*(892) + c.c.$
Γ_5	$\pi K\bar{K}$
Γ_6	$\pi\pi\eta$
Γ_7	$\pi^+ \pi^- \pi^+ \pi^-$
Γ_8	$(1.11 \pm 0.14) \times 10^{-6}$

CONSTRAINED FIT INFORMATION

An overall fit to the total width, 2 partial widths, a combination of partial widths obtained from integrated cross sections, and 3 branching ratios uses 16 measurements and one constraint to determine 5 parameters. The overall fit has a $\chi^2 = 14.0$ for 12 degrees of freedom.

The following *off-diagonal* array elements are the correlation coefficients $\langle \delta p_i \delta p_j \rangle / (\delta p_i \cdot \delta p_j)$, in percent, from the fit to parameters p_i , including the branching fractions, $x_i \equiv \Gamma_i / \Gamma_{\text{total}}$. The fit constrains the x_i whose labels appear in this array to sum to one.

x_2	-100			
x_3	-6	-1		
x_8	-6	6	1	
Γ	-23	23	-1	-55
	x_1	x_2	x_3	x_8

Mode	Rate (MeV)	
$\Gamma_1 K\bar{K}$	65 ± 5	DESIG=2
$\Gamma_2 \eta\eta$	7.6 ± 1.8	DESIG=4
$\Gamma_3 \pi\pi$	0.60 ± 0.12	DESIG=1
$\Gamma_8 \gamma\gamma$	(8.1 ± 0.9) $\times 10^{-5}$	DESIG=8

$f'_2(1525)$ PARTIAL WIDTHS

$\Gamma(K\bar{K})$	Γ_1
VALUE (MeV)	DOCUMENT ID TECHN COMMENT

65 $^{+5}_{-4}$ OUR FIT

63 $^{+6}_{-5}$ 26 LONGACRE 86 MPS 22 $\pi^- p \rightarrow K_S^0 K_S^0 n$

$\Gamma(\eta\eta)$	Γ_2
VALUE (MeV)	DOCUMENT ID TECHN COMMENT

7.6 ± 1.8 OUR FIT

• • • We do not use the following data for averages, fits, limits, etc. • • •

5.0 \pm 0.8 870 27 SCHEGELSKY 06A RVUE $\gamma\gamma \rightarrow K_S^0 K_S^0$
 24 \pm 3 26 LONGACRE 86 MPS 22 $\pi^- p \rightarrow K_S^0 K_S^0 n$

$\Gamma(\pi\pi)$	Γ_3
VALUE (MeV)	DOCUMENT ID TECHN COMMENT

0.60 ± 0.12 OUR FIT

1.4 $^{+1.0}_{-0.5}$ 26 LONGACRE 86 MPS 22 $\pi^- p \rightarrow K_S^0 K_S^0 n$

• • • We do not use the following data for averages, fits, limits, etc. • • •

0.2 \pm 1.0 870 27 SCHEGELSKY 06A RVUE $\gamma\gamma \rightarrow K_S^0 K_S^0$

$\Gamma(\gamma\gamma)$	Γ_8
VALUE (keV)	DOCUMENT ID TECHN COMMENT

0.081 ± 0.009 OUR FIT

• • • We do not use the following data for averages, fits, limits, etc. • • •

0.13 \pm 0.03 870 27 SCHEGELSKY 06A RVUE $\gamma\gamma \rightarrow K_S^0 K_S^0$

26 From a partial-wave analysis of data using a K-matrix formalism with 5 poles.

27 From analysis of L3 data at 91 and 183–209 GeV, using $\Gamma(f'_2(1525) \rightarrow K\bar{K}) = 68$ MeV and SU(3) relations.

NODE=M013220

NODE=M013W6
NODE=M013W6

NODE=M013W7
NODE=M013W7

NODE=M013W5
NODE=M013W5

NODE=M013W8
NODE=M013W8

NODE=M013PW;LINKAGE=L
NODE=M013W8;LINKAGE=SC

$f'_2(1525) \Gamma(i)\Gamma(\gamma\gamma)/\Gamma(\text{total})$

$\Gamma(K\bar{K}) \times \Gamma(\gamma\gamma)/\Gamma_{\text{total}}$					$\Gamma_1\Gamma_8/\Gamma$
<u>VALUE (keV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
0.072 ± 0.007 OUR FIT					NODE=M013G1
0.072 ± 0.007 OUR AVERAGE					NODE=M013G1
0.0564 ± 0.0048 ± 0.0116	ABE	04	BELL	10.6 $e^+ e^- \rightarrow e^+ e^- K^+ K^-$	
0.076 ± 0.006 ± 0.011	331	28 ACCIARRI	01H L3	$e^+ e^- \rightarrow e^+ e^- K_S^0 K_S^0$	
0.067 ± 0.008 ± 0.015		29 ALBRECHT	90G ARG	$e^+ e^- \rightarrow e^+ e^- K^+ K^-$	
0.11 ± 0.03 ± 0.02		BEHREND	89C CELL	$e^+ e^- \rightarrow e^+ e^- K_S^0 K_S^0$	
0.10 ± 0.04 ± 0.03		BERGER	88 PLUT	$e^+ e^- \rightarrow e^+ e^- K_S^0 K_S^0$	
0.12 ± 0.07 ± 0.04	29 AIHARA	86B TPC		$e^+ e^- \rightarrow e^+ e^- K^+ K^-$	
0.11 ± 0.02 ± 0.04	29 ALTHOFF	83 TASS		$e^+ e^- \rightarrow e^+ e^- K\bar{K}$	
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.0314 ± 0.0050 ± 0.0077	30 ALBRECHT	90G ARG		$e^+ e^- \rightarrow e^+ e^- K^+ K^-$	OCCUR=2
28 Supersedes ACCIARRI 95J. From analysis of L3 data at 91 and 183–209 GeV,					
29 Using an incoherent background.					
30 Using a coherent background.					

 $f'_2(1525) \text{ BRANCHING RATIOS}$

$\Gamma(\eta\eta)/\Gamma_{\text{total}}$				Γ_2/Γ
<u>VALUE</u>		<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
• • • We do not use the following data for averages, fits, limits, etc. • • •				
seen	UEHARA	10A	BELL	10.6 $e^+ e^- \rightarrow e^+ e^- \eta\eta$
0.10 ± 0.03	31 PROKOSHKIN	91 GAM4	300	$\pi^- p \rightarrow \pi^- p\eta\eta$
31 Combining results of GAM4 with those of WA76 on $K\bar{K}$ central production and results of CBAL, MRK3 and DM2 on $J/\psi \rightarrow \gamma\eta\eta$.				

$\Gamma(\eta\eta)/\Gamma(K\bar{K})$				Γ_2/Γ_1	
<u>VALUE</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.118 ± 0.028 OUR FIT					
0.115 ± 0.028 OUR AVERAGE					
0.119 ± 0.015 ± 0.036	61	32 BINON	07	GAMS	32.5 $K^- p \rightarrow \eta\eta(\Lambda/\Sigma^0)$
0.11 ± 0.04		33 PROKOSHKIN	91 GAM4	300	$\pi^- p \rightarrow \pi^- p\eta\eta$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
< 0.14	90	BARBERIS	00E		$450 p p \rightarrow p_f \eta\eta p_s$
< 0.50		BARNES	67	HBC	4.6,5.0 $K^- p$
32 Using the compilation of the cross sections for $f'_2(1525)$ production in $K^- p$ collisions from ASTON 88D.					
33 Combining results of GAM4 with those of WA76 on $K\bar{K}$ central production and results of CBAL, MRK3 and DM2 on $J/\psi \rightarrow \gamma\eta\eta$.					

$\Gamma(\pi\pi)/\Gamma_{\text{total}}$				Γ_3/Γ
<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.0082 ± 0.0016 OUR FIT				
0.0075 ± 0.0016 OUR AVERAGE				
0.007 ± 0.002	COSTA...	80	OMEG	10 $\pi^- p \rightarrow K^+ K^- n$
0.027 ± 0.071	34 GORLICH	80	ASPK	17,18 $\pi^- p$
0.0075 ± 0.0025	34,35 MARTIN	79	RVUE	
• • • We do not use the following data for averages, fits, limits, etc. • • •				
< 0.06	95	AGUILAR...	81B HBC	4.2 $K^- p \rightarrow \Lambda K^+ K^-$
0.19 ± 0.03		CORDEN	79 OMEG	12–15 $\pi^- p \rightarrow \pi^+ \pi^- n$
< 0.045	95	BARREIRO	77 HBC	4.15 $K^- p \rightarrow \Lambda K_S^0 K_S^0$
0.012 ± 0.004	34 PAWLICKI	77 SPEC	6 $\pi N \rightarrow K^+ K^- N$	
< 0.063	90	BRANDENB...	76C ASPK	13 $K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$
< 0.0086	34 BEUSCH	75B OSPK	8.9 $\pi^- p \rightarrow K^0 \bar{K}^0 n$	
34 Assuming that the $f'_2(1525)$ is produced by an one-pion exchange production mechanism.				
35 MARTIN 79 uses the PAWLICKI 77 data with different input value of the $f'_2(1525) \rightarrow K\bar{K}$ branching ratio.				

NODE=M013223

NODE=M013G1

NODE=M013G1

OCCUR=2

NODE=M013G;LINKAGE=HA

NODE=M013G1;LINKAGE=A

NODE=M013G1;LINKAGE=B

NODE=M013225

NODE=M013R8

NODE=M013R8

NODE=M013R8;LINKAGE=B

NODE=M013R3

NODE=M013R3

NODE=M013R3;LINKAGE=BI

NODE=M013R3;LINKAGE=B

NODE=M013R1

NODE=M013R1

NODE=M013R1;LINKAGE=C

NODE=M013R1;LINKAGE=D

$\Gamma(\pi\pi)/\Gamma(K\bar{K})$ VALUE**0.0092±0.0018 OUR FIT****0.075 ± 0.035**DOCUMENT IDTECNCOMMENT

AUGUSTIN

87

DM2

 $J/\psi \rightarrow \gamma\pi^+\pi^-$ Γ_3/Γ_1

NODE=M013R7

NODE=M013R7

 $[\Gamma(K\bar{K}^*(892)+c.c.) + \Gamma(\pi K\bar{K})]/\Gamma(K\bar{K})$ VALUECL%DOCUMENT IDTECNCOMMENT

• • • We do not use the following data for averages, fits, limits, etc. • • •

<0.35 95 AGUILAR-... 72B HBC 3.9,4.6 $K^- p$

<0.4 67 AMMAR 67 HBC

 $(\Gamma_4+\Gamma_5)/\Gamma_1$

NODE=M013R5

NODE=M013R5

 $\Gamma(\pi\pi\eta)/\Gamma(K\bar{K})$ VALUECL%DOCUMENT IDTECNCOMMENT

• • • We do not use the following data for averages, fits, limits, etc. • • •

<0.41 95 AGUILAR-... 72B HBC 3.9,4.6 $K^- p$

<0.3 67 AMMAR 67 HBC

 Γ_6/Γ_1

NODE=M013R4

NODE=M013R4

 $\Gamma(\pi^+\pi^+\pi^-\pi^-)/\Gamma(K\bar{K})$ VALUECL%DOCUMENT IDTECNCOMMENT

• • • We do not use the following data for averages, fits, limits, etc. • • •

<0.32 95 AGUILAR-... 72B HBC 3.9,4.6 $K^- p$ Γ_7/Γ_1

NODE=M013R6

NODE=M013R6

 $f'_2(1525)$ REFERENCES

UEHARA	10A	PR D82 114031	S. Uehara <i>et al.</i>	(BELLE Collab.)	REFID=53641
ANISOVICH	09	IJMP A24 2481	V.V. Anisovich, A.V. Sarantsev	(ZEUS Collab.)	REFID=52719
CHEKANOV	08	PRL 101 112003	S. Chekanov <i>et al.</i>	(BES Collab.)	REFID=52275
BINON	07	PAN 70 1713	F. Binon <i>et al.</i>	(GAMS Collab.)	REFID=52057
		Translated from YAF 70 1758.			
AMSLER	06	PL B639 165	C. Amsler <i>et al.</i>	(CBAR Collab.)	REFID=51136
SCHEGELSKY	06A	EPJ A27 207	V.A. Schegelsky <i>et al.</i>	(WA 102 Collab.)	REFID=51185
ABLIKIM	05	PL B607 243	M. Ablikim <i>et al.</i>	(Omega Expt.)	REFID=50450
ABE	04	EPJ C32 323	K. Abe <i>et al.</i>	(BES Collab.)	REFID=49650
CHEKANOV	04	PL B578 33	S. Chekanov <i>et al.</i>	(DELPHI Collab.)	REFID=49672
BAI	03G	PR D68 052003	J.Z. Bai <i>et al.</i>	(L3 Collab.)	REFID=49580
TIKHOMIROV	03	PAN 66 828	G.D. Tikhomirov <i>et al.</i>	(TETE) JP	REFID=49423
		Translated from YAF 66 860.			
AMSLER	02	EPJ C23 29	C. Amsler <i>et al.</i>	(WA 102 Collab.)	REFID=48580
ACCIARRI	01H	PL B501 173	M. Acciarri <i>et al.</i>	(WA 102 Collab.)	REFID=48321
BARBERIS	00E	PL B479 59	D. Barberis <i>et al.</i>	(WA 102 Collab.)	REFID=47961
BARBERIS	99	PL B453 305	D. Barberis <i>et al.</i>	(WA 102 Collab.)	REFID=46921
BARKOV	99	JETPL 70 248	B.P. Barkov <i>et al.</i>	(WA 102 Collab.)	REFID=47379
		Translated from ZETFP 70 242.			
ABREU	96C	PL B379 309	P. Abreu <i>et al.</i>	(DELPHI Collab.)	REFID=44671
BAI	96C	PRL 77 3959	J.Z. Bai <i>et al.</i>	(BES Collab.)	REFID=45169
ACCIARRI	95J	PL B363 118	M. Acciarri <i>et al.</i>	(L3 Collab.)	REFID=44615
PROKOSHKIN	91	SPD 36 155	Y.D. Prokoshkin	(GAM2, GAM4 Collab.)	REFID=41719
		Translated from DANS 316 900.			
ALBRECHT	90G	ZPHY C48 183	H. Albrecht <i>et al.</i>	(ARGUS Collab.)	REFID=41374
PDG	90	PL B239 1	J.J. Hernandez <i>et al.</i>	(IFIC, BOST, CIT+)	REFID=40744
BEHREND	89C	ZPHY C43 91	H.J. Behrend <i>et al.</i>	(CELLO Collab.)	REFID=40915
ASTON	88D	NP B301 525	D. Aston <i>et al.</i>	(SLAC, NAGO, CINC, INUS)	REFID=40330
AUGUSTIN	88	PRL 60 2238	J.E. Augustin <i>et al.</i>	(DM2 Collab.)	REFID=40574
BERGER	88	ZPHY C37 329	C. Berger <i>et al.</i>	(PLUTO Collab.)	REFID=40566
FALVARD	88	PR D38 2706	A. Falvard <i>et al.</i>	(CLER, FRAS, LALO+)	REFID=40576
AUGUSTIN	87	ZPHY C36 369	J.E. Augustin <i>et al.</i>	(LALO, CLER, FRAS+)	REFID=40268
BALTRUSAIT...	87	PR D35 2077	R.M. Baltrusaitis <i>et al.</i>	(Mark III Collab.)	REFID=40010
AIHARA	86B	PR D 57 404	H. Aihsra <i>et al.</i>	(TPC-2 γ Collab.)	REFID=20764
BOLONKIN	86	SJNP 43 776	B.V. Bolonkin <i>et al.</i>	(ITEP) JP	REFID=44646
		Translated from YAF 43 1211.			
LONGACRE	86	PL B177 223	R.S. Longacre <i>et al.</i>	(BNL, BRAN, CUNY+)	REFID=20768
ALTHOFF	83	PL 121B 216	M. Althoff <i>et al.</i>	(TASSO Collab.)	REFID=21408
ARMSTRONG	83B	NP B224 193	T.A. Armstrong <i>et al.</i>	(BARI, BIRM, CERN+)	REFID=20558
AGUILAR...	81B	ZPHY C8 313	M. Aguilar-Benitez <i>et al.</i>	(CERN, CDEF+)	REFID=21104
ALHARRAN	81	NP B191 26	S. Al-Harran <i>et al.</i>	(BIRM, CERN, GLAS+)	REFID=21403
CHABAUD	81	APP B12 575	V. Chabaud <i>et al.</i>	(CERN, CRAC, MPIM)	REFID=20742
COSTA...	80	NP B175 402	G. Costa de Beauregard <i>et al.</i>	(BARI, BONN+)	REFID=20737
GORLICH	80	NP B174 16	L. Gorlich <i>et al.</i>	(CRAC, MPIM, CERN+)	REFID=20738
CORDEN	79	NP B157 250	M.J. Corden <i>et al.</i>	(BIRM, RHEL, TELA+) JP	REFID=20374
MARTIN	79	NP B158 520	A.D. Martin, E.N. Ozmutlu	(DURH)	REFID=20377
POLYCHRO...	79	PR D19 1317	V.A. Polychronakos <i>et al.</i>	(NDAM, ANL)	REFID=20378
BARREIRO	77	NP B121 237	F. Barreiro <i>et al.</i>	(CERN, AMST, NIJM+)	REFID=21392
EVANGELIS...	77	NP B127 384	C. Evangelista <i>et al.</i>	(BARI, BONN, CERN+)	REFID=20540
PAWLICKI	77	PR D15 3196	A.J. Pawlicki <i>et al.</i>	(ANL) IUPC	REFID=20367
BRANDENB...	76C	NP B104 413	G.W. Brandenburg <i>et al.</i>	(SLAC)	REFID=20225
BEUSCH	75B	PL 60B 101	W. Beusch <i>et al.</i>	(CERN, ETH)	REFID=21390
AGUILAR-...	72B	PR D 6 29	M. Aguilar-Benitez <i>et al.</i>	(BNL)	REFID=20205
AMMAR	67	PRL 19 1071	R. Ammar <i>et al.</i>	(NWES, ANL) JP	REFID=21382
BARNES	67	PRL 19 964	V.E. Barnes <i>et al.</i>	(BNL, SYRA) IUPC	REFID=21383
CRENNELL	66	PRL 16 1025	D.J. Crennell <i>et al.</i>	(BNL) I	REFID=20317